

## Technical Soil Descriptions

Technical soil descriptions describe the characteristics or properties (physical and chemical) of the soil including the parent material in which it formed. A pedon, a small three-dimensional area of the soil, serves as the reference point for the technical or soil series description. The soil description compares the soil to similar and other nearby soils and also includes a range of important characteristics. The detailed description method follows standards outlined in the Soil Survey Manual and many of the technical terms used in the description are defined in Soil Taxonomy.

### ***Counties with Published Soil Surveys***

Technical soil descriptions are located in the county soil survey descriptive legend.

### ***Counties without Published Soil Surveys***

Technical soil descriptions can be found in adjacent county published soil survey descriptive legends or at our [Official Soil Series Description](#) web site.

*This section includes:*

- **(a) Classification of the soils**

Clay and Ray Counties, Missouri  
 Classification of the Soils

Soil name	Family or higher taxonomic class
	Arents
AHOLT-----	Very-fine, montmorillonitic (calcareous), mesic Vertic Haplaquolls
ARMSTER-----	Fine, montmorillonitic, mesic Mollic Hapludalfs
ARMSTER-----	Fine, montmorillonitic, mesic Mollic Hapludalfs
BOOKER-----	Very-fine, montmorillonitic, mesic Vertic Endoaquolls
BREMER-----	Fine, montmorillonitic, mesic Typic Argiaquolls
COLO-----	Fine-silty, mixed, mesic Cumulic Endoaquolls
COTTER-----	Fine-silty, mixed, mesic Typic Argiudolls
DOCKERY-----	Fine-silty, mixed, nonacid, mesic Aquic Udifluvents
GILLIAM-----	Fine-silty, mixed, mesic Fluvaquentic Hapludolls
GREENTON-----	Fine, montmorillonitic, mesic Aquic Argiudolls
GREENTON-----	Fine, montmorillonitic, mesic Aquic Argiudolls
GRUNDY-----	Fine, montmorillonitic, mesic Aquertic Argiudolls
GRUNDY-----	Fine, montmorillonitic, mesic Aquertic Argiudolls
HAYNIE-----	Coarse-silty, mixed, superactive, calcareous, mesic Mollic Udifluvents
HIGGINSVILLE-----	Fine-silty, mixed, mesic Aquic Argiudolls
KNOX-----	Fine-silty, mixed, mesic Mollic Hapludalfs
KNOX-----	Fine-silty, mixed, mesic Mollic Hapludalfs
LADOGA-----	Fine, montmorillonitic, mesic Vertic Hapludalfs
LAGONDA-----	Fine, montmorillonitic, mesic Aquertic Argiudolls
LAGONDA-----	Fine, montmorillonitic, mesic Aquertic Argiudolls
LANDES-----	Coarse-loamy, mixed, mesic Fluventic Hapludolls
LETA-----	Clayey over loamy, montmorillonitic, mesic Fluvaquentic Hapludolls
LEVASY-----	Clayey over loamy, montmorillonitic (calcareous), mesic Fluvaquentic Endoaquolls
MACKSBURG-----	Fine, montmorillonitic, mesic Aquic Argiudolls
MODALE-----	Coarse-silty over clayey, mixed (calcareous), mesic Aeric Fluvaquents
MONITEAU-----	Fine-silty, mixed, superactive, mesic Typic Endoaqualfs
MYRICK-----	Clayey over loamy, montmorillonitic (calcareous), mesic Fluvaquentic Haplaquolls
NODAWAY-----	Fine-silty, mixed, nonacid, mesic Mollic Udifluvents
NORBORNE-----	Coarse-loamy, mixed, mesic Typic Argiudolls
PARKVILLE-----	Clayey over loamy, montmorillonitic, mesic Fluvaquentic Hapludolls
SAMPSEL-----	Fine, montmorillonitic, mesic Vertic Argiaquolls
SARPY-----	Mixed, mesic Typic Udipsamments
SHARPSBURG-----	Fine, montmorillonitic, mesic Typic Argiudolls
SHARPSBURG-----	Fine, montmorillonitic, mesic Typic Argiudolls

Clay and Ray Counties, Missouri  
 Classification of the Soils

Soil name	Family or higher taxonomic class
SIBLEY-----	Fine-silty, mixed, mesic Typic Argiudolls
SNEAD-----	Fine, mixed, mesic Aquic Hapludolls
WABASH-----	Fine, montmorillonitic, mesic Cumulic Vertic Endoaquolls
WALDRON-----	Fine, smectitic, active, calcareous, mesic Aeric Fluvaquents
WIOTA-----	Fine-silty, mixed, mesic Typic Argiudolls
ZOOK-----	Fine, montmorillonitic, mesic Cumulic Vertic Endoaquolls